SHARPIN, Semen Andreyevich; VITVITSKIY, M., red.; BURKATOVSKAYA, TS., tekhn. red.

.

[Tables for calculating the wages of workers and office employees for vacation time or compensation for unused leave; revised to take into consideration the change in the price scale and substitution of the new currency] Tablitsy elia ischisleniia srednego zarabotka rabochikh i sluzhashchikh za vremia otpuska ili kompensatsii za neispol'zovannyi otpusk; pererabotany s uchetom izmeneniia masshtabe tsen i zamenoi obrashchaiushchikhsia deneg izmeneniia masshtabe tsen i zamenoi obrashchaiushchikhsia deneg novymi den'gami. L'vov, knizhno-zhurnal'noe izd-vo, 1961. 142 p. (MIRA 14:9)

(Wages--Tables and ready reckoners)

SUKHOMLINA, Z.I.; VITVITSKIY, M. [Vitvita'kyi, M.], red.; DOROSHENKO, M., red.; NEDUVIZ, S., tekhn. red.

[Useful advice] Knyzhkovo-zhurnal'ne vyd-vo, 1961. 182 p. (MIRA 14:10)

(Cookery) (Rouse furnishings)

KARPENKO, G.V., red.; VITVITSKIY, M., red.

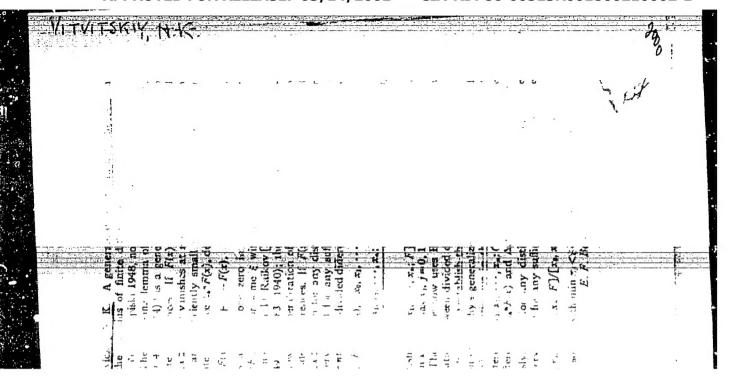
[Corrosion fatigue of matala; collection of reports]
Korrozionnaia ustalost; matalay; shornik dokladov.
L'yov, Kameniar, 1964. 234 F. (MIRA 18:11)

1. Vsesoyuznoye soveste hamiye po korrozionnoy ustalosti metallov, Lvov, 1962. 2. Chlenekorrespondent AN Ukr.SSSR i Institut mashinovedeniya i avtomatiki AN Ukr.SSR (for Karpenko).

VITVITSKIY, N.K., Cand Tech Sci -- (diss) "Approximate method determining the frequencies of natural bending, torsion, and joint oscillations of girders of changing cross-section."

Tomok, 1959, 12 pp (Min of Railway The USSR. Len Order of Lenin Inst of Engineers of Railroad Transport im Acadamician V.N. Obratsov) 120 copies (KL, 28-59, 126)

- 47 -



Sourcest Mathematical Reviews, Int. 11 No. 1

VITVITSKIY, N.K.

Approximate method for determining frequencies of natural bending, torsional, and joint vibration of bars with variable cross-sections.

Trudy TEIIZHT 25:229-256 156. (MIRA 13:10)

1. Kafedra matematiki Tomskogo elektromekhanicheskogo instituta inzhenerov zheleznodorozhnogo transporta. (Vibration)

VITVITSKIY, V. M., Cand Med Sci (diss) -- "The antimicrobal and therapeutic properties of combinations of certain antibiotics". Khar'kov, 1960. 12 pp (Khar'kov State Med Inst), 200 copies (KL, No 14, 1960, 136)

VITVITSKIY, N.K.

Determining the frequency of natural bending vibrations of beams beyond the elasticity boundary in the presence of plasticity zones. Trudy TEIIZHT 34:103-120 162. (MIRA 16:8)

VITVITSKIY, P.M. [Vytvyts'kyi, P.M.]; LEONOV, M.Ya.

Dislocation with an elliptical hollow. Dop.AN URSR no.3: 314-317 '60. (MIRA 13:7)

1. Institut mashinovedeniya i avtomatiki AN USSR. Predstavleno akademikom AN USSR G.N. Savinym [H.M. Savinym].

(Dislocations in crystals)

TVYTSKIY, P.M.

29227

S/198/61/007/005/007/015 D274/D303

10.7600

Vytvyts'kyy, P.M., and Leonov, M.Ya., (L'viv) AUTHORS:

On the fracture of a plate having a crack TTTLE:

Prykladna mekhanika, v. 7, no. 5, 1961, 516 - 520 PERIODICAL:

TEXT: An infinite plate with a crack of length 21 (see Fig.) is under stresses, normal to the crack. Fracture occurs at the value of stress. It is assumed that the maximum normal stresses do not exceed a certain fixed value (the limit strength of the materi-1): (1)

omax < o'LA;

Hooke's law applies; if a stress-strain state occurs which does not comply with linear theory, nor with condition (1), then breaches (regions of weakened bonds) appear in the body; the effect of these breaches depends on the critical distance δ_{cr} . For an ideal brittle

(amorphou**)** body, δ_{cr} is found from

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On the fracture on a plate ...

$$\delta_{\rm cr} = \frac{2T}{\sigma_{\ell n}},\tag{2}$$

T being the surface energy of the material. For various materials, whose fracture accompanied by microplastic deformations, the quantity $\delta_{\rm cr}$ can be experimentally determined. In the above model, the breaches always occur (notwithstanding very small $\sigma_{\rm co}$), hence the fracture (crack) is enlarged (see Fig.), and

$$X_{y}(x, \pm 0) = 0; Y_{y}(x, \pm 0) = \begin{cases} 0, & /x/<\ell; \\ \sigma_{\ell s}, & \ell \leq /x/ \leq L. \end{cases}$$
 (3)

The length 2L of the enlarged fracture is unknown; it has to be determined in accordance with (1). This problem is solved by N.I. Muskhelishvili's method (Ref. 2: Nekotoryye osnovnyye zadachi matematicheskoy teorii uprugosti, AN SSSR, 1954). After computations, one sobtains

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S/198/61/007/005/007/015 D274/D303

On the fracture of a plate ...

$$L = l \sec \frac{\pi \sigma_{\infty}'}{2\sigma_{IB}'}.$$
 (15)

Formulas for the stresses in the plate are derived, in particular, on the real axis, for L $\ll/x/<\infty$, one obtains

$$Y_{y} = \sigma_{\infty} - \frac{2\sigma_{\pi} \operatorname{ts}}{\pi} \operatorname{arctg} \frac{\sqrt{L^{2} - l^{2}}}{l^{2} - x^{2} - x\sqrt{x^{2} - L^{2}}};$$

$$X_{x} = -\frac{2\sigma_{\pi} \operatorname{ts}}{\pi} \operatorname{arctg} \frac{l\sqrt{L^{2} - l^{2}}}{r - x^{2} - x\sqrt{x^{2} - L^{2}}}; \quad X_{y} = 0.$$
(17)

For the quantity δ , which denotes the distance traversed by the points $(\pm \ell$, +0) and $(+\ell$, -0) of opposite surfaces of the breach as a result of the deformation, one obtains

$$\delta = -\frac{8\ell}{\pi E} \sigma_{\ell B} \ln \cos \frac{\pi \sigma_{\infty}^{\prime}}{2\sigma_{\ell B}^{\prime}}.$$
 (18)

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On the fracture of a plate ...

By the adopted model, these opposite surfaces will no longer interact if $\delta > \delta_{\rm cr}$, hence the fracture increases. Thus, the critical stress $\sigma_{\rm cr}$ is such a value of $\sigma_{\rm co}$ that $\delta = \delta_{\rm cr}$. Hence (18) yields

$$\sigma'_{cr} = \frac{2}{\pi} \sigma_{\ell s} \arccos \exp \left(-\frac{\pi E \delta_{cr}}{8t \sigma_{\ell s}}\right).$$
 (19)

For our ots,

$$\sigma_{\rm cr} = \sqrt{\frac{E\sigma_{\ell s}\sigma_{\rm cr}}{\pi\ell}}.$$
 (20)

D274/D303

For brittle materials, one obtains from (2) and (20) Griffith's formula:

$$\sigma_{\rm cr} = \sqrt{\frac{2ET}{\pi \ell}}$$
 (21)

For $l \rightarrow 0$, formula (21) yields infinitely large σ_{cr} ; this disad- χ

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On the fracture of a plate ...

S/198/61/007/005/007/015 D274/D303

vantage is not shared by formula (19) which yields (for $l \to 0$), $\sigma_{\rm cr} \to \sigma_{ls}$, i.e. the strength of plate with "zero" crack equals the strength of a faultless plate. Griffith's results are also unsuitable for very small cracks. Formulas (19) and (20) can also be used for fracture processes accompanied by microplastic deformations. Thereby, $\sigma_{ls}\delta_{\rm cr}$ (denoted by A) is the work expended on the formation of two surfaces of same area during the development of a breach. Hence formulas (19) and (20) are written

$$\sigma_{\rm cr} = \frac{2}{\pi} \, \sigma_{\ell_B} \, \arccos \, \exp \, \left(-\frac{\pi \, EA}{8 t \, \sigma_{\ell_B}^2} \right),$$
 (22)

$$\sigma_{\rm cr} = \sqrt{\frac{EA}{\pi \ell}}$$
 $(\sigma_{\rm cr} \ll \sigma_{\ell_{\rm B}}).$ (23)

Formula (22), proposed by Orowan, remains valid for any σ_{or} , even if σ_{cr} is of the same order as $\sigma_{\ell s}$. There are 1 figure and 5 refecard 5/6

8/198/61/007/005/007/015 D274/D303

On the fracture of a plate ...

rences: 3 Soviet-bloc and 2 non-Soviet-bloc. The references to English-language publications read as follows: A.A. Griffith, Phenomena of rupture and flow in solids, Trans. Roy. Soc., A 221, London, 1920; E. Orowan, Energy criteria of fracture, Welding J., March 1955.

ASSOCIATION: Instytut mashynosnavstva i avtomatyky AN USSk (Institute of the Science of Machines and Automation AS Ukr-

SSK)

SUBMITTED:

June 10, 1960

Fig.

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Card 6/6

1:2175

5/613/62/000/001/001/008

E001/E183

IDE (QUE)
AUTHORS:

Vitvitskiy, P.M., and Leonov, M.Ya.

TITLE:

Slip bands in the heterogeneous deformation of

a plate

SOURCE:

Akademiya nauk Ukrayins'koyi RSR. Instytut mashynoznavstva i avtomatyky, L'viv. Voprosy mekhaniki

real'nogo tverdogo tela. no. 1. Kiev, 1962, 13-28.

TEXT: The paper is a continuation of previous work (M.Ya. Leonov, N.Yu. Shvayko, Zhurnal prikladnoy mekhaniki i tekhnicheskoy fiziki, no.2, 1961. P.M. Vitvitskiy, M.Ya. Leonov, DAN URSR, no.3, 1960. P.M. Vitvitskiy, M.Ya. Leonov, Frikladna mekhanika, v.7, no.5, 1961). The problem of the elasto-plastic deformation of a body may be reduced to the linearly elastic problem of a material containing a distribution of dislocations. In accordance with this concept, the plane stress state is investigated in a thin plate containing a slit or a circular hole and subjected to a stress system which at infinity becomes Y = p (tensile), X = X = 0. At a certain stress slip bands

Card 1/2

Slip bands in the heterogeneous ...

5/813/62/606/661/661/666 E001/E183

develop; the Muskhelishvili stress functions appropriate to the region surrounding a circular hole are quoted, and the modified functions applicable in the presence of distributed dislocations are derived. The problem of the elasto-plastic deformation of a plate with a slit involves determining the distribution of dislocations, and leads to an integral equation the solution of which gives the conditions for the formation of slip bands. Initially, the slip bands are parallel with the slit, but later, bands develop which are inclined at an angle of about 50° to the slit; these findings agree with observations on soft steel plate. An analogous treatment is applied to a plate containing a hole. In this case a polynomial solution is found for the integral equation, and by limiting the number of terms in the polynomial the solution is evaluated approximately. There are 6 figures and 1 table.

SUBMITTED: June 10, 1961

Card 2/2

34375

5/207/62/000/001/016/018 B104/B108

10,7100

Vitvitskiy, P. M., Leonov, M. Ya. (L'vov)

AUTHORS :

Extension beyond the elastic limit of a plate with circular

TITLE:

opening

PERIODICAL:

Zhurnal prikladnoy mekhaniki i tekhnicheskoy fiziki, no. 1,

1962, 109 - 117

TEXT: Conditions are laid down under which the deformation of a body beyond the elastic limit can be studied with the linear elastic theory of the deformation of a body with linear dislocations distributed according to a certain law. The distribution of these dislocations and the dimensions of the region in which they occur are determined from the given forces of the minelastic bonds and from the condition of conservation of elasticity outside the inelastic deformations. On the basis of such a model the stress in a thin infinitely long plate with a circular opening (Fig. 1) subjected to forces p is studied. Stress and strain in the complex plane which result only from the load are determined by the

functions Card (/

CIA-RDP86-00513R001860210002-1" APPROVED FOR RELEASE: 03/14/2001

S/207/62/000/001/016/018 B104/B108

Extension beyond the elastic limit...

beyond the elastic limit...
$$\Psi^{\circ}(z) = \frac{1}{4} p \left(1 + 2 \frac{R^{\bullet}}{z^{\bullet}}\right). \qquad \Psi^{\circ}(z) = \frac{1}{2} p \left(1 + \frac{R^{\bullet}}{z^{\bullet}} + 3 \frac{R^{\bullet}}{z^{\bullet}}\right) \qquad (1.1).$$

That part of the stress produced by the dislocations is determined in such a way that in the regions of inelastic deformation the sum of the stresses produced by p and those produced by the dislocations fulfills the $Y_y^{\circ}(x,0) + |Y_y|^{s}(x,0) = \sigma_n = const$ (n < |x| < |L|)

Some auxiliary problems about linear dislocations in the plane that are necessary for the present problem are investigated with reference to a paper by N. I. Muskhelishvili (Nekotoriye osnovyye zadachi matematicheskoy teorii uprugosti, Izd-vo AN SSSR, 1954). The integral equation

for the density $\mu(t)$ of the dislocation distribution is solved in the variables

Card 2/8

Extension beyond the elastic limit... S/207/62/000/001/016/018 $\xi = \frac{x^2}{R^2}, \quad \eta = \frac{t^2}{R^2}$ $\frac{D}{R^2} = \alpha, \quad \mu(t) = \mu(RV\eta) = \mu_0(\eta)$ by approximation: $\mu_0(\eta) \approx \frac{\sigma_0}{D} \sum_{n=0}^{\infty} a_n \eta^n \qquad (1 \le \eta \le n)$ dependence of the length of the region of inelastic deformation. The radius R is calculated as a function (Fig. 3). Finally, the critical load of table, and 10 references; 9 Soviet and 1 non-soviet. There are 4 figures, Phenomena of Rupture and Flow in Solids, Trans. Roy. Soc., A 221, London, Card 3/8

VITVITSKIN S.M.

33751 \$/021/62/000/002/006/010 D299/D304

10.7600 1327 4016

Vytvyts'kyy, P. M. and Leonov, M. Ya.

TITLE:

AUTHORS:

Brittle fracture of plate with circular hole

PERIODICAL: Akademiya nauk UkrRSR. Dopovidi. no. 2, 1962, 174-178

TEXT: An infinite plate with a circular hole of radius R is subjected to stresses which create (at infinity) the uni-axial stresses state $Y_y^{\infty} = p$, $X_x^{\infty} = X_y^{\infty} = 0$. It is assumed that the material of the plate corresponds to the simplified model of a brittle body 1960, p. 16). According to this model, no. 1, VINITI AS SSSR, whose sides are attracted towards each other as long as the distance between them does not exceed a certain value of (which is consiched, the interaction between the sides ceases and local fracture of the displacements, normal to the cracks, has a discontinuity Card 1/7

Brittle fracture of ...

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 $\lambda(x)$. The discontinuities are related to linear dislocations. Muskhelishvili's function for a linear dislocation is

$$\oint_{1}(z) = \Psi_{1}(z) = D \frac{\lambda}{z} \tag{4}$$

where $D = \frac{G}{\gamma(1+\chi)}$; G is the shear modulus, $\mathcal{H} = 3-4\nu$ (for plane strain) and $\mathcal{H} = (3-\nu)/(1+\nu)$ - for plane stress. In the case of a pair of dislocations λ and $-\lambda$ which pass through the points t and -t of the real axis, one obtains

$$\oint_{2}(z) = -2D \frac{\lambda t}{z^{2} - t^{2}}, \quad \Psi_{2}(z) = -4D \frac{\lambda t z^{2}}{(z^{2} - t^{2})^{2}}$$
 (5)

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Brittle fracture of ...

S/021/62/000/002/006/010 D299/D304

Further, Muskhelishvili's function for a pair of linear dislocations in a plane with a hole is derived. The discontinuity is expressed by

$$v(x,+0) - v(x,-0) = \lambda(x) = \int_{L}^{x} \mu(t)dt \quad (R \leq |x| \leq L)$$
 (8)

The function $\mu(t) = \lambda'(t)$ is called the density-distribution of dislocations. After a change of variables (in particular $t^2/R^2 = \eta$, $\mu(t) = \mu(R\sqrt{m}) = \mu_0(\eta)$), one obtains the integral equation for μ_0 :

$$\int_{1}^{\infty} \left[\frac{1}{\gamma - \xi} + \frac{1}{\xi \gamma} + \frac{\xi - \eta}{\gamma \xi (\xi \gamma - 1)^{2}} + \frac{4(\gamma - 1)(\xi - 1)}{(\xi \gamma - 1)^{3}} \right] \mu_{o}(\gamma) d\gamma +$$

Card 3/7

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Brittle fracture of ...

S/021/62/000/002/006/010 D299/D304

$$+\frac{p}{4D}\left(2+\frac{1}{\xi}+\frac{3}{\xi^2}\right)=\frac{\sigma_0}{2D}, \qquad 1\leqslant \xi \leqslant \alpha \tag{9}$$

The approximate solution of this equation is sought in the form of a polynomial with unknown coefficients \mathbf{a}_n , viz.:

$$\mu_{o}(\eta) \approx \frac{\sigma_{o}}{D} \sum_{n=0}^{m} a_{n} \eta^{n} \quad (1 \leqslant \eta \leqslant \alpha)$$
(10)

Substituting (10) in (9), one obtains

Card 4/7

Brittle fracture of ...

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$$\sum_{n=0}^{m} a_n J_n(\alpha, \xi) + \frac{p}{\sigma_0} f(\xi) \approx \frac{1}{2} \qquad (1 \leqslant \xi \leqslant \infty)$$
(11)

For (11) to hold, it is necessary that

$$\sum_{n=0}^{m} \alpha_n \alpha^n = 0 \tag{13}$$

The quantity α , by which the length of the crack can be found: $1 = R(\sqrt{\alpha} - 1)$, is determined by (13). The coefficients a_n are found by means of a system of (m+1) equations. This system in conjunction Card 5/7

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Brittle fracture of ...

with (13), yields p/σ_0 (σ_0 being the constant stress between the sides of the cracks which attract each other). Thus, an approximate relationship is obtained between the length of the crack, the load and the dislocation density-distribution. The maximum distance between the crack sides is

$$\Lambda(R) = \frac{\sigma_0}{D} R \sum_{n=0}^{m} \frac{a_n}{2n+1} \left[1 - \left(\frac{L}{R}\right)^{2n+1} \right]$$
(14)

Plots of 1/R versus p/ σ_0 and of $\lambda(R)$ D/R σ_0 versus p/ σ_0 are shown. These graphs are used for determining the critical load p_k at which fracture occurs. Depending on δ D/R σ_0 , the critical load varies between $\frac{1}{3}\sigma_0 \leqslant p_k \leqslant \sigma_0$. With a given constant δ , $(\delta$ D/ $\sigma_0)$ p_k $\Rightarrow \frac{1}{3}\sigma_0$ with Card 6/7

33**75**1 62/000/002/006/010 Brittle fracture of ...

large R, and $p_k \rightarrow \sigma_0$, with R \rightarrow 0. There are 3 figures and 5 Sovietbloc references.

Instytut mashynoznavstva ta avtomatyky AN UkrRSR (Institute of the Science of Machines and Automation of ASSOCIATION:

the AS UkrRSR)

PRESENTED: by Academician H. M. Savin of the AS UkrRSR

Language Colonia Salatan Panagan Harangan

SUBMITTED: June 22, 1961

Card 7/7

S/879/62/000/000/028/088 D234/D308

AUTHORS:

Leonov, M. Ya., Vitvitakiy, P. M. and Yarema, S. Ya.

(L'vov)

TITLE:

Theoretical and experimental investigation of elastic-plas-

tic deformations during the extension of a plate with a

SOURCE:

Teoriya plastin i obolochek; trudy II Vsesoyuznoy konfe-

rentsii, L'vov, 15-21 sentyabrya 1961 g. Klev, Izd-vo

AN USSR, 1962, 196-199

TEXT: The elastic-plastic deformation is reduced to the deformation of an ideal elastic body whose displacements are discontinuous on certain surfaces. With the aid of this model the authors solve the problem of an infinite plate with a slot, subject to forces perpendicular to the slot. N. I. Muskhelishvili's method is used. The critical load is found to be V(1-2/) multiplied by critical stress. The experiments, carried out on steel plates, gave results coinciding with the theoretical data in the initial stages except in the incubation period. There are 2 figures. Card 1/1

5/020/63/148/003/010/037 B104/B186

AUTHORS:

Leonov, M. Ya., Academician AS KirSSR, Vitvitskiy, P. M.,

Yarema, S. Ya.

TITLE:

Gliding strips occurring due to the stretching of plates

having crack-like concentrators,

Doklady, v. 148, no. 3, 1963, 541 - 544 PERIODICAL: Akademiya nauk SSSR.

TEXT: Thin plates (200-300 mm) made of soft sheet steel that has crack-like stress concentrators in a direction perpendicular to the concentrators produced by cutters are stretched. The gliding strips could be observed by eye. Four stages of deformation were estbalished: 1) A stage of incubation with no plastic deformation occurring; 2) the stage, which is characteristic of the first appearance of mat spots at the ends of the cracks; 5) the stage, which is characteristic of the appearance of gliding strips, 20 - 40 mm long, that start from the end of the crack and make an angle of 47 - 54 with the axis of the concentrators; 4) the stage, which is characteristic of the simultaneous appearance of gliding strips at many spots combining into a gliding band. The results of an analytic investigation of the stages using Card 1/2

Gliding strips occurring ...

\$/020/63/148/003/010/037 B104/B186

the method developed by N. I. Muskhelishvili (Nekotoryye osnovnyye zadachi matematicheskoy teorii uprugosti - Some basic problems of the mathematical theory of elasticity, M., 1954) show satisfactory agreement with experiment if an ideal plastic-elastic material is assumed. Deviations between the angle of the gliding bands and the load at which these occur are attributed to the finiteness of the width of these bands, and to the solidification of the deformed material in the vicinity of the crack ends. There are 4 figuræ.

SUBMITTED: February 5, 1962

Card 2/2

VITVITSKIY, V.M.; GODUN, V.M.; KIMEL'BLAT, M.A.

Change in the sensitivity of dysentery agents to some antibiotics in Ivano-Frankovsk between 1958 and 1963. Antibiotiki 9 no.12:1108-1110 D '64. (MIRA 18:7)

1. Kafedra mikrobiologii (zav. - prof. T.I.Ivanova) Ivano-Frankovskogo meditsinskogo instituta i Ivano-Frankovskaya infektsionnaya klinicheskaya bol'nitsa (glavnyy vrach Ye.I.Gulyayevskaya).

VITVITSKIY, V.M.

Sensitivity of bacteria from the Proteus group to various antiblotics and their combinations. Antibiotiki 9 no.8: 744-748 Ag 164. (MIRA 18:3)

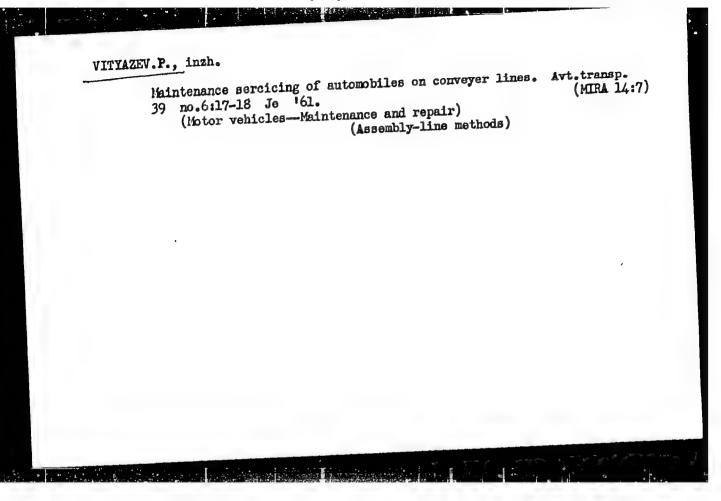
1. Kafedra mikrobiologii (zav. - pref. T.I. Ivanova) Ivano-Frankovskogo meditsinskogo instituta.

VITVITSKIY, V.M.

Adaptation of Proteus cultures to some antibiotics and their combinations. Antibiotiki 10 no. 10:908-913 0 '65. (MIRA 18:12)

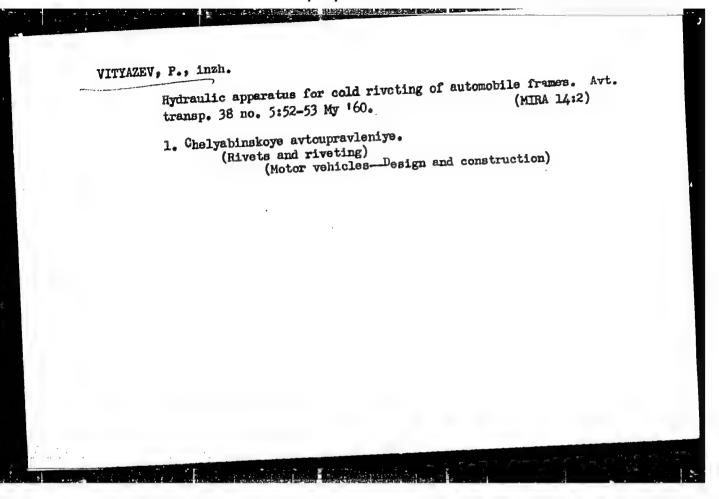
1. Kafedra mikrobiologii (zav. - prof. T.I. Ivanova) Ivano-Frankovskogo meditsinskogo instituta. Submitted Nov. 2, 1964.

Tractor-mounted shrub cutter. Put' i put.khoz. 5 no.6:24-25
Je '61. (Railroads--Equipment and supplies)



CHEPURIN, V., shofer (Moskva); LAVRENT'YEV, A., avtolyubitel' (Syktyvkar);
GRIGORYYAN, V., shofer (Tbilisi); VASIL'YEV, A., inah. po mekhanizatsii;
RADVOGIN, M. (Moskva); VITTAZZV, P., inah. (Chelyabinsk); YAKOVLEV, N.
(Chirchik); VINOKUROV, A.; BULIK, T., shofer; IOKOT', I., avtoslesar'
(Chirchik); VINOKUROV, A.; BULIK, T., shofer; IOKOT', I., avtoslesar'
(MIRA 16:3)

1. "Sel'khoztekhnika", Chelyabinskaya ohl. (for Vasil'yev). 2. Nachal'nik
tsekha Konservnogo zavoda, g.Temryuk Krasnodarskogo kraya (for
Vinokurov). 3. Konservnyy zavod, g. Temryuk Krasnodarskogo kraya (for
Vinokurov). (Automobile engineering—(Tschnological innovations)



VITYAYEV:48818

1. UDOVENTO, V. V., VITYAYEVE S. I.

2. USSR (600)

"The Viscosity of the Ketones -- Organic Acids Systems,
" Zhur. Obshch. Khim.. 9. No. 19. 1939. Laboratory of
V," Zhur. Obshch. Khim.. 9 No. 19. 1939. Laboratory of
physical Chemistry, Central Asiatic State University,
Received 8 April 1939.

9. Report U-1626, 11 Jan 1952.

VITYAYEVA, S.I.; MARKMAN, A.L. Polarographic study of keto - enol isomerism on the example of acetonylacetone. Dokl. AN Uz. SSR no.8:33-36 '57. (MIRA 11:5) acetonylacetone. Dokl. AN Uz. SSR institut. Predstavleno chlenom-lacetone. AN UzSSR I.P. TSukervanikom. (Hexanedione) (Polarographic analysis) (Isomerism)

ALEKSANDROVA-ZAORSKAYA, V.V.; ARNOL'D, V.S.; ADAMCHUK, V.A.; BARAHSKIY,

N.N.; BARDIN, I.P.; VASYUTIN, V.F.; KIEVATENA, V.A.; GORDONOV,

L.Sh.; DOLGOPOLOV, K.V.; ZEHKOYA, Z.A.; HENCHINOV, V.S.; OKRU
CHEV, V.V.; RYAZANTSEV, S.N.; SOKOLOV, A.V.; STEPANOV, P.H.;

CHERDANTSEV, G.N.

A.M.Volkov; obituary. Isv. AN SSSR Ser.geog. no.6:106-107 N-D '54.

(Volkov, Aleksandr Mikhailovich, 1890-1954) (MIRA 8:3)

VITYAZEVA, V.A.

Conference on the over-all unilization of the natural resources of Ukhta. Izv. AN SSSR. Ser. feeg. no.3:145-148 My-Je '57.
(Ukhta--Natural resources) (MIRA 10:12)

VITYAZEVA, Valentina Aleksandrovna, ; MEZENTSEV, ... red.; TSIVUNIN, I., tekhn.red.

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POKSHISHEVSKIY, V.V., prof.; SOLOV'YEVA, M.G., dotsent;

LYALIKOV, N.I., dotsent, red.; ZAK, A.L., tekhm.red.

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(Geography, Economic)

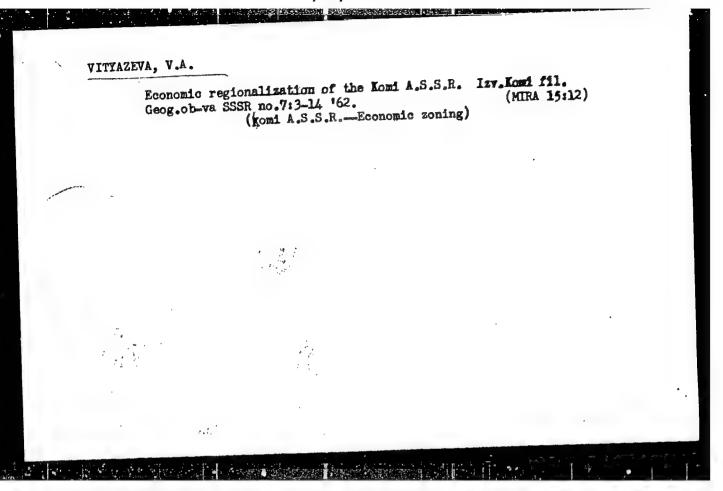
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Problems concerning comprehensive utilization of natural resources in the Komi A.S.S.R. Izv.AH SSSR. Ser.geog. no.3:55-61 (MIRA 13:6) Ny-Je '60. 1. Komi filial AN SSSR. (Komi A.S.S.R.—Industries)

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VAVILOV, P.P.; VITYAZEVA, V.A.

The Komi Branch of the Academy of Sciences of the U.S.S.R.

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24822. VITYN'SH, Ya. Ya. Pitanie Podzemnykh Vod V Svyazi S Tipami Pochv. Trudy
Yikkeynoy Sessii, Posvyashch Stoletiy So Dnya Rozhdeniya Dokuchayeva, M. L.,
1949 S 182-83

SO: Letopis' No. 33, 1949

VESNIN, V.V.; VIYRA, V.I.; KARTASHOV, I.P.

History of the formation of the glacial relief in the region of Lake Jack London. Dokl. AN SSSR 147 no.3:667-670 N *62. (MIRA 15:12)

l. Ten'kinskaya kompleksnaya ekspeditsiya Severo-Vostochnogo geologicheskogo upravleniya i Severo-Vostochnyy kompleksnyy nauchno-issledovatel'skiy institut Sibirskogo otdeleriya AN SSSR. Predstavleno akademikom I.P. Gerasimovym. (Jack London Lake region—Glacial epoch)

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Distribution of chromium oxide in the products of treatment of ilmenite. Izv. TPI 126:98-101 '64. (MIRA 18:7)

VITYUGIN, V.M.; PLOTNIKOVA, Ye.S.

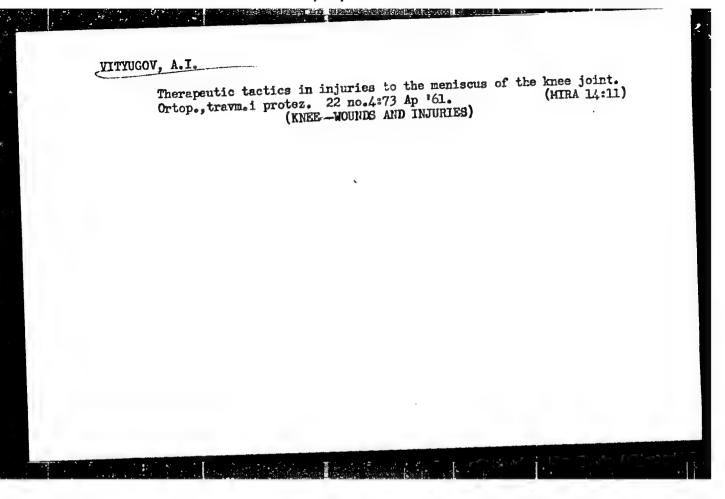
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126:102-105 '64. (MIRA 18:7)

VITYUGIN, V. M.; PROKHOROVICH, V. A.; BOGMA, A. S.

Nodulizing iron ore concentrates with cast iron filings.

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1. Tomskiy politekhnicheskiy institut.



VITYUGOV, I.A.

Experimental observations in injury or partial or complete removal of the menisous of the knee joint. Ortop. travm. protez., Moskva-19 no.6: 34-36 N-D '58. (MIRA 2:1)

1. Iz kliniki travmatologii i ortopedii (zav.- prof. L.O. Shkolinikov) Stalinskogo (Kemerovskoy obl.) gosudarstvennogo instituta dlya usovershenstvovaniya vrachey (dir. - dots. G.L. Starkov).

(KNEE, wds. & inj.

meniscus, partial & complete removal in sheep & dogs (Rus))

VITYUGOV, I.A.

New signs of demages to the meniscus of the knee joint.

Ortop.trevm. 1 protez. 19 no.4160 Jl-Ag '58 (MIRA 11:11)

1. Iz kliniki travmatologii ortopedii (zav. - prof. L.G. Shkol'nikov) Stalinskogo Gondarstvennogo instituta dlya spetsializatsii usovershenstvovaniya vrachey im. V.I Lenina.

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Clinical data on cardiac and pericardial wounds. Thirurgiia 35
no.1:125-128 Ja '59.

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nikov) Stalinskoge gosudarstvennogo instituta dlya spetaializatsii
i usovershamatovovanlya vrachay (dir. - dotsent G.L. Starkov).

(HEART, wds. & inj.
case reports (Rus))
(PERICARDIUM, wds. & inj.
same)
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Significance of arthropneumography in diagnosis of injuries of menisci of the knee joint. [with summary in English]. Vest. rent. i rad. 33 no.5:49-55 S-0 '58 (MIRA 11:11) 1. Iz kafedry ortopedii i travmatologii (zav. - prof. I.G. Shkol'nikov) Stalinskogo instituta dlya usovershenstvovaniya vrachey (dir. - dotsent G.L. Starkov). (INEE wds. & inj. meniscal, diag. value of arthropneumography (Rus))

VITYUGOV, I.A.

Some cases of osteochondritis disseques (Koenig's disease). Ortrop. traym.i protez. 21 no.3:57-59 Mr '60. (MIRA 14:3)

1. Iz kliniki travmatologii i ortopedii (zav.kafedroy - prof. L.G. Shkol'nikov) Stalinskogo (Kemerovskoy oblasti) instituta usovershenstvovaniya vrachey (dir. - dotsent G.L.Starkov).

(OSTEOCHONDROSIS)

VITYUGOV, I.A. Accidents among machine couplers. Ortop.travm. i protez. no.3:71 My-Je '55. 1. Iz kliniki ortopedii i travmatologii (sav.prof. L.G.Shkol'nikov) Stalinskogo (kemarovskoy obl.) instituta usovershenstvovaniya vrachey dir.prof. A.N.Araviiskiy) (ACRICULTURR, accid. in tractor trailer workers) (ACCIDENTS, in tractors trailer workers)

VITTUGIN, V.M.; ATKHIN, G.F.

Wood pitch as a binder for coal briquetting. Gidroliz.i lesokhim.prom.
(MIRA 12:3)

12 no.2:7-9 '59.

1. Tonskiy politekhnicheskiy institut.
(Wood tar) (Briquets (Fuel))

A CALL DE LA COMPANION DE LA CALLE DE LA C

SHKOL'NIKOV, L.G., prof. (Novokuznetsk, Kemerovskoy oblasti, prospekt Metallurgov, d.34, kv.27); VITYUGOV, I.A., kand. med. nauk; ROSTOVSKAYA, M.P.

Surgical treatment of ruptures of the cruciform ligaments of the knee joint. Ortop., travm. i protez. 25 no.6:16-21 Je '64.

(MIRA 18:3)

1. Iz kafedry travmatologii i ortopedii (zav. - prof. L.C. Shkol'nikov) Novokuznetskogo instituta usovershenstvovaniya vrachey (dir. - dotsent G.L. Starkov).

VITYUK, A.N.

Approximate integration of systems of ordinary differential equations based on S.A. Chaplygin's method. Dif. urav. 1 no.7:923-928 Jl '65. (MIRA 18:8)

1. Odesskiy gosudarstvennyy universitet imeni I.I. Mechnikova.

(1)

L 00315-66 EWT(d) IJP(c) ACCESSION NR: AP5019616

UR/0376/65/001/007/0923/0928

AUTHOR: Vityuk, A. N. AA. S

TITLE: On the approximate integration of systems of ordinary differential equations by the Chaplygin method

SOURCE: Differentaial'nyye uravneniya, v. 1. no. 7, 1965, 923-928

TOPIC TAGS: ordinary differential equation, approximation method, Cauchy problem

ABSTRACT: A method is proposed for the construction of an approximate solution for the system $y'_l = f_l(y) = f_l(x, y_1, y_2, \dots, y_n), \quad (l = 1, 2, \dots, n)$

under the initial conditions

 $y_t(x_t) = y_{t0} \quad (2)$

where $y_{i,0}$ are arbitrary constants and $x_i \in (a,b)$ Sequences for the solution are constructed on the basis of a theorem due to Chaplygin on differential inequalities for the equation y' = f(x, y), and they are proved to converge uniformly to the

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L 00315-66 ACCESSION NR	: AP5019616	has: 37 formulas:		3
ASSOCIATION: Odesskiy gosudarstvannyy universitet imeni I. I. Mechnikova (Odessa State University)				
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VITYUK, A.N. [Vitiuk, O.N.]

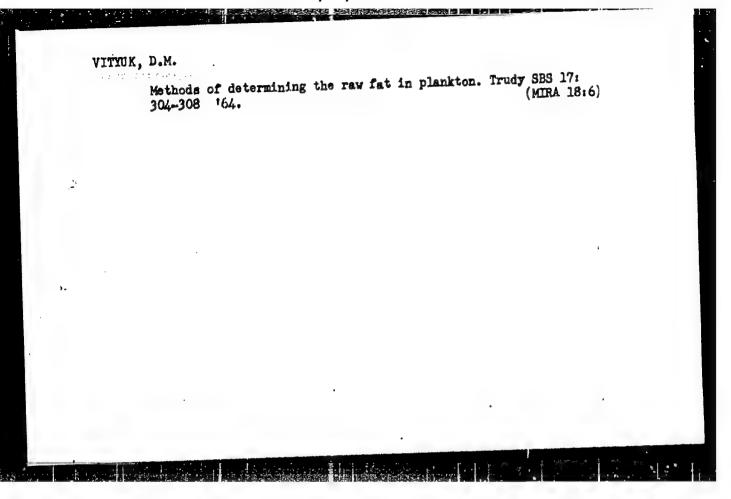
Upper and lower bound approximations to the solution of systems of ordinary differential equations of the first order unsolved with respect to the derivatives. Dop. AN URSR no.3:284-287 165.

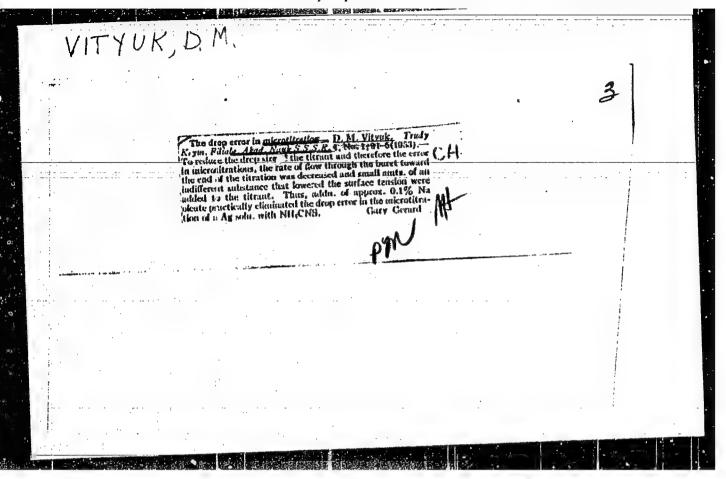
1. Odesskiy gosudarstvennyy universitet.

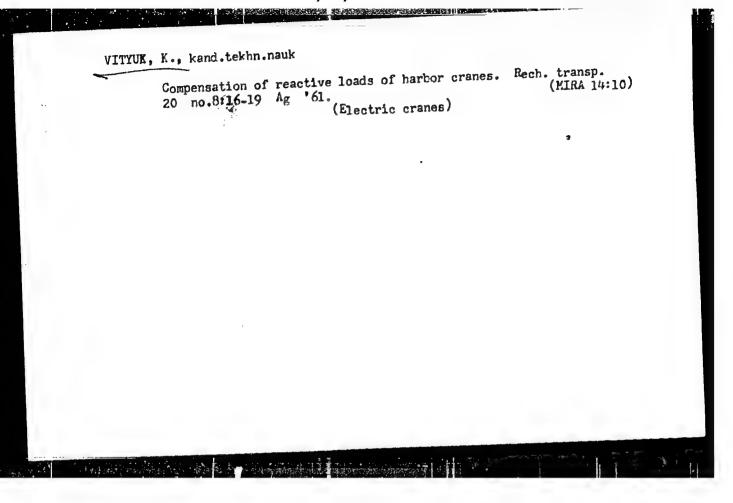
三·拉尔·马克斯克尔斯 BENT 中国的国际各种公共上华。(2)

LANSKAYA, L.A.; VITYUK, D.M.; ROZHANSKAYA, L.I.

Some data on the chemical composition of marine planktonic algae cultivated under artificial and natural illumination. Trudy SBS 17:346-350 '64. (MIRA 18:6)







VITYUK, K.T., kand.tekhn.nauk

Some problems of the most efficient use of using diesels in dieselelectric propeller units. Trudy LIIVI no.26:231-235 '59.
(MIRA 14:9)

(Ship propulsion) (Diesel engines)

VITTUK, K.T., dotsent, kand.tekhn.nauk Determining the power on the terminals of electric motor according to the degree of loading of the actuating mechanism.

Izv.vys.ucheb.zav.; energ. 3 no.5:54-59 My 160. (MIRA 13:6)

1. Leningradskiy institut vodnogo transporta. Predstavlena kafedroy elektrifikatsii promyshlennykh predpriyatiy i ustanovok. (Electric motors)

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VITTUK, R.T., knows teahr, with dottens

Standard ling the control systems of period and fleeling orange.

Trudy Livit no.71 and 15%.

VITYUK, K. T.

Vityuk, K. T.

"Automatic regulation of the power circuit of diesel electric paddle-wheel mechanisms of inland shipping vessels." Min River Fleet USSR. Leningrad Inst of Water Transport Engineers. Leningrad, 1956. (Dissertation for the Degree of Candidate in Technical Sciences).

So: Knizhnaya letopis' No. 25, 1956. Moscow

SELIVERSTOV, V.M., kand.tekhn.nauk; VITYUK, K.T., kand.tekhn.nauk

Automatic control system of an auxiliary boiler on the
motorship "Kazbek." Trudy LIVT no.10:45-56 '61. (MIRA 14:9)
(Boilers, Marine) (Automatic control)

KOVALENKO, G.D., agronom po zashchite rasteniy (Cherkasskiy rayon);
TSURA, A.A., agronom po zashchite rasteniy (Chigirinskiy rayon,
Cherkasskoy oblasti); VITYUK, S.A., agronom po zashchite rasteniy
(Idtinskiy rayon, Vinnitskaya obl.); HRUNNER, Yu.N., kand.biolog.
nauk (Poltava); KRUGLOVA, M.G., agronom po zashchite rasteniy
(Poltava)

From the practices in controlling the pea weevil. Zashch.rast.ot vred. i bol. 7 no.4:9-13 kp *62. (MIRA 15:12) (Pea weevil—Extermination)

VITYUK, S.A., agronom po zashchite rasteniy

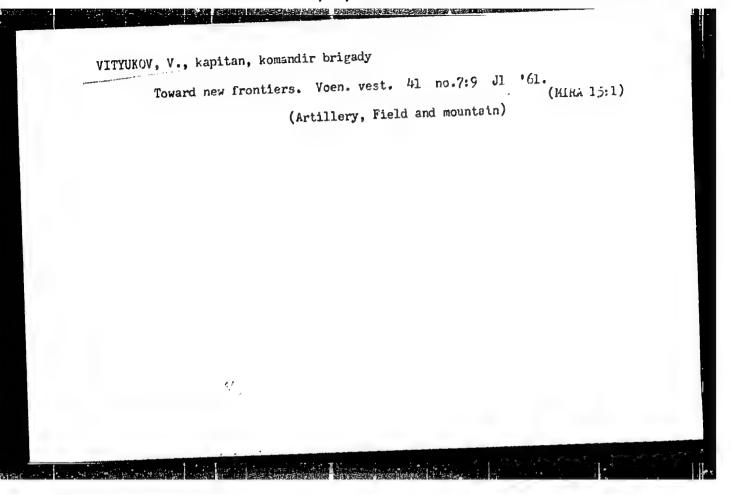
Organize the protection of private orchards. Zashch.rast.ot vred.

(MIRA 11:12)

i bol. 3 no.6:28-29 N-D "58.

1.Litinskaya mashinuo-traktornaya stantsiya, Vinnitskaya oblast'.

(Fruit--Diseases and pests) (Spraying and dusting)



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	Paleyer, N.H. Medical Studies in East intervior Aviitable: Library of Compress (GSSO.SSS)	popherio Chestrations upatic field in the Region of Nirmy? of Y <u>el. Traitskays.</u> Israstigation of Telluria Currents in the	Southerich, Za.S. Ice Regime of the Davis See and Edgewood Reproduction of the Expedition's Area of Varotherick, Ze.S. Biographic Characteristics of the Expedition's Area of 104 Operation	geographic, and geographica and collections are new and at the financial and and the financial part and collections are seen through There are no referenced and the contraction of the discisor of the discis	corpular. This book is values 2 of a multivalues work containing examinate due collected by the Thirt Series Continental Expedition to the intential (1955-97), sent on the thirt Series continental Expedition to the intential (1955-97), sent of under the nursices of the intential selection limitation. It is purpose of the intential selection limitation as part of the 101 program. The purpose of the appointation was to rurer as as part of the 101 program. Expedition and to the appoint (as area of about 1 area to the continents) to devalue subdets and behindres for field studies applicable to local conditions, and to initials a systemitie study of the matter that beaccess of the regime. Ground and serial classrations was combated in the same intensities area accoming to the same the Saminaton for Saminaton to the three cases of Original, Sunger, and Vesticales, distinction is the first and a matter of the same of the same continents.	Mi. K.M. Segor, Decks of the preparation of the second sections. Purposes. This book is intended for polar specialists, geographers, geologists, settorniogists, and grophysicists.	Persys kontinentalinaja etspeditsija 1955-1957 ma; naucksje semiltaty (Frat Continental Expeditos, 1955-195); Schamitzie Besulte) Leniagrad, ind-re Worning temaport, 1959, 161 p. 2,000 copies printed. (Series: Its: Meterialy, tom 2)	PHANK I BOOK EXPLOITATION SOY/LJ39 Severtalaya astantticheskays elspeditelys, 1955-		
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VITIUNEY, O.I., inzh.

Supply cars with brake platforms. Bezop.truda v prom. 1 no.10:33-34

(NIRA 10:11)

0 '57.

1. Dzhezkazganskoye rudoupravleniye.

(Conveying machinery)

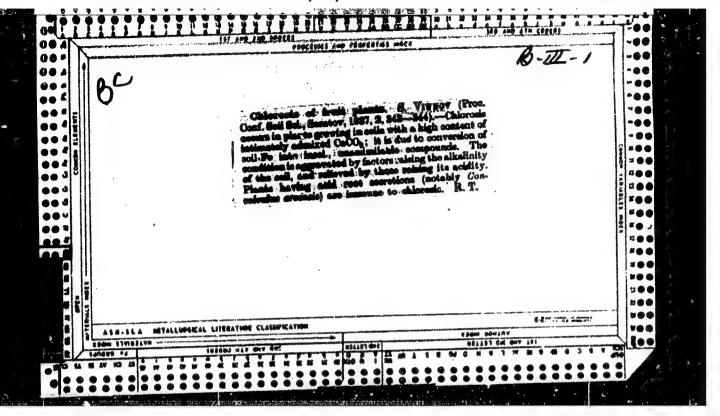
VITYUTNEV, P.I., gornyy tekhnik.

Our complaints about electric lecomotive designers. Bezop.truda
v prom. 1 no.8:38 Ag '57. (MLRA 10:8)

1.Dzheskasganskoye rudoupravleniye.
(Blectric lecomotives)

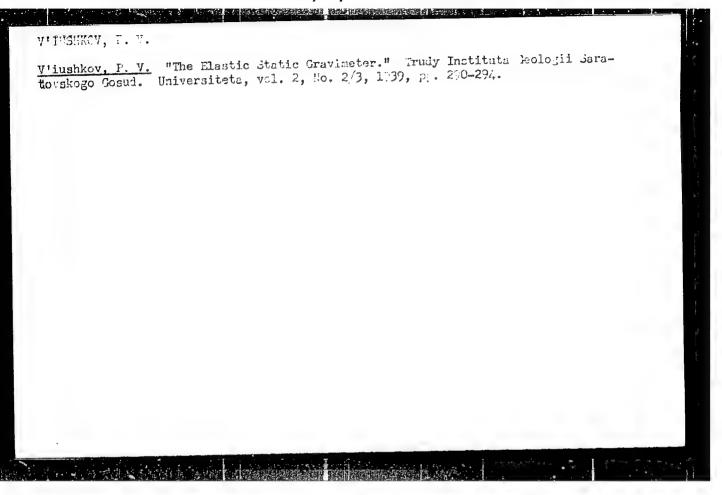
SHINKARENKO, M.I., inzh.; VITZON, A.A., inzh.

Modernization of rolling mills. Mashinostroenie no.2:28-29
(MIRA 18:6)
Mr.Ap 165.



SVYATUKHIN, M.V.; BODAREV, A.A.; VIUNSKOVSKIY, D.N.

Effect of dextran on the development of edema in burned tissues and on hemoconcentration in extensive burns. Probl. gemat. i perel. krovi 5 no. 4:39-44 Ap '60. (MIRA 14:1) (BURNS AND SCALDS)



VIVADA, Marjan.

"The Yugoslav trade unions are coming out for international solidarity." Vsem.prof.dvizh. no.4:9 Ap 156. (MIRA 9:8)

1. Chlen sekretariat TSentral'nogo soveta Soyuza profsoyuzov Yugoslvii, na IV s"yezde Vseobshchey ital'yanskoy konfederatsii truda:

(Yugoslavia--Trade unions)

VIVAL'ED, I.G.

Effect of erganic and mineral fertilizers on the crop, accumulation and yield of rubber, of kek-saghyz. Dep.AN URSR no.3:51-58 149.

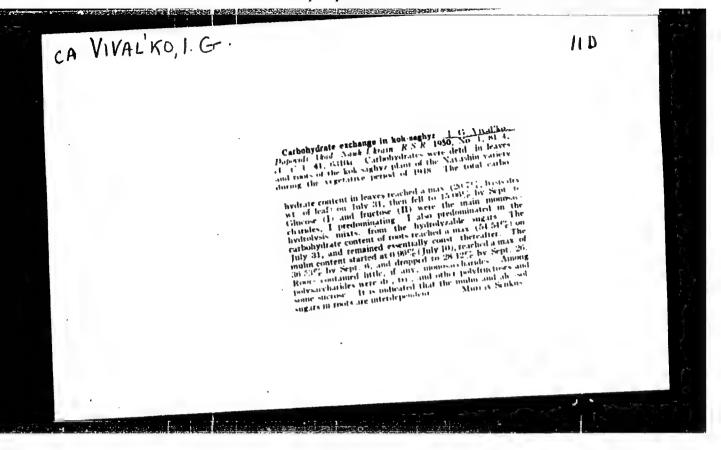
(MIRA 9:9)

1.Institut fizielegii roslin i agrokhimii AN URSR. Predstaviv diysniy chlen AN URSR O.I.Dushechkin.
(Kek-Saghyz)

VIVALKO, I. G.; SHILOV, YE. A.; YASNIKOV, A. A.

"Mechanism of rubber and carotene biosynthesis. "

report submitted for the IUPAC 2nd International Symposium on the Chemistry of Natural products, Prague, Czech., 27 Aug - 2 Sep 62



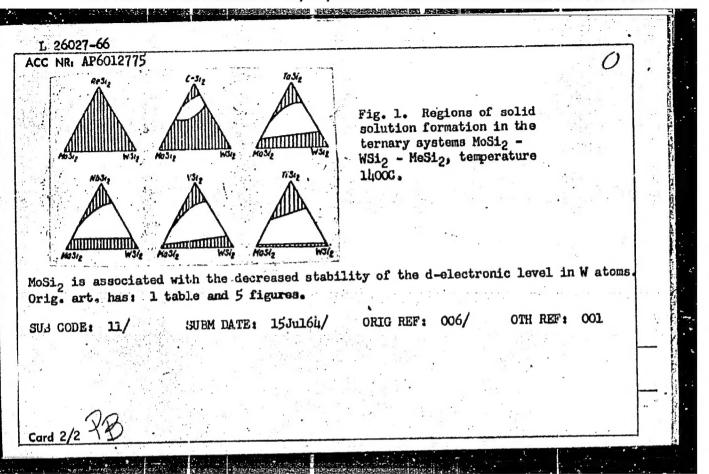
VIVAL'KO, I.G.; KOVALENKO, G.P.; LEPPIK, L.A.

Effect of various nitrogen fertilizers on the increase of flax productivity. Dep.AN URSR no.6:556-559 155. (MIRA 9:7)

1.Institut fiziologii roslin ta agrokhimii AH URSR. Predstaviv diysniy chlen AN URSR O.I.Dushechkin.
(Ukraine--Flax) (Fertilizers and mamures)

VIVAL'NYUK, L. N. Cand Phys-Math Sci -- (diss) "Significance of the activity of a professor of the University of Kiev, Academician D. A. Grave, in the development of algebra in the Soviet Union." Kiev, 1960, 14 pp, (Society of the Scientific Council of the Institutes of Mathematics, Physics, and the Physics of Metals of the Acad Sci UnSSR), 250 copies, (KL, 31-60, 140)

26027-66 EWT(#1) 31/JO CC NR. AP6012775	SOURCE CODE: UR/0226/66/000/00L/0069/0073
UTHORS: Verkhoglyadova, T. S. (dec	ceased); Vivchar, O. I.; Gladyshevskiy, Ne. I.
aterialovadeniya AN UKrSSR); <u>biv</u> osudarstvennyy universitet)	Materials, An UKISSI (Institute of State University im, I. Franko (L'vovskiy
ITLE: Solubility of transition misilicide	netal disilicides in molybdenum and tungsten
OURCE: Poroshkovaya metallurgiya	ı, no. 4, 1966, 69-73
liagram	tungsten compound, transition element, phase
and the ternary system MoSi2 - WS determined. The nature of the so methods. The experimental result	the binary systems MoSi ₂ - ReSi ₂ and WSi ₂ - ReSi ₂ i ₂ - MeSi ₂ (where Me = Ti, V, Nb, Ta, or Cr) were lid phase was determined by x-ray and microstructural s are presented in graphs and tables (see Fig. 1). a continuous series of solid solutions, and the
systems WSi2 - ReSi2 and NoSi2 -	WSi ₂ - ReSi ₂ show unlimited reciprocal solubility. show only limited solubility in the solid state. solubility of disilicides in WSi ₂ as compared with
Card 1/2	



VIVCHARENKO, F. P.

Bang's Disease.

Our work in improving health conditions at farms in which brucellosis was prevalent. Veterinariia 29 no. 3:31 Mr 152.

Monthly List of Russian Accessions, Library of Congress, July 1952. UNCLASSIFIED.

VIVDENKO, M.I.; SHABALIN, K.N.

Studying the conditions of the forming of uniform derivenessuring (1,0-05) . 10-3 m. Izv.vys.ucheb.zav.; keie.i khim.tekh. 8 nc.4x685-590 '65. (MR. 18:11)

1. Ural'akiy politekhnicheskiy institut imeni Kirova, kafedra protsessov i apparatov khimicheskoy tekhnologia.

ACCESSION NR: AP501.061

AUTHORS: Vivdenko, M. I.; Shabalin, K. N.

TITLE: On the mechanism of decay of a jet into coarse droplets

SOURCE: Inzhenerno-fizioheskiy zhurnal, v. 8, no. 4, 1965, 445-446

TOP: TABS:

ABSTRACT: The break-up or decay of a water jet into large drops was studied by the state of the state of